



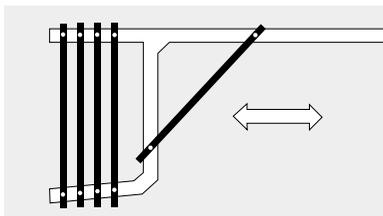
Planning Manual
for
Horizontal Sliding
Walls

DORMA HSW/FSW

DORMA HSW – Transparent versatility

Horizontal sliding walls are used in a wide range of different project types, and for both internal and external applications. These partitions can be flexibly designed to suit the site of installation, structural conditions and design concept. They can satisfy a broad spectrum of requirements in relation to styling, material and finish or colour, and can also be equipped with individually fabricated panels to perform special functions. Additional utilisation of the DORMA substructure ensures flexible planning in the case of all system variants as well as providing for the simple installation, maximum reliability and outstanding safety of the entire system.

HSW Horizontal Sliding Walls

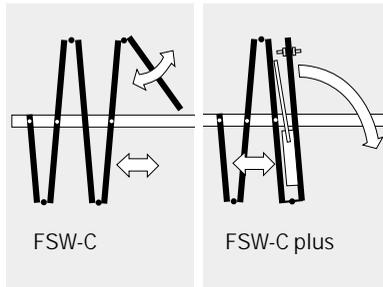
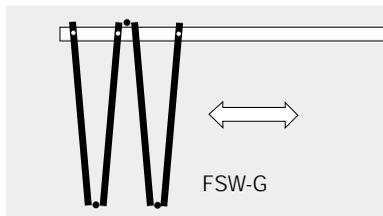


HSW-ARCOS
Fully glazed
with door rails

HSW-G
Fully glazed
with door rails

HSW-GP
Single-point fixings
with standard track rail

FSW Folding Sliding Walls

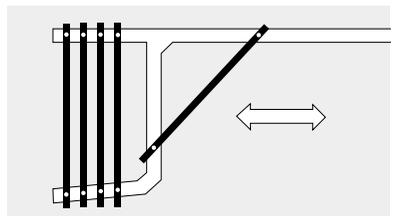


FSW-G
Fully glazed with door rails

FSW-C
Roller carrier position at door rail centre

FSW-C plus
Roller carrier position at door rail centre
plus full-width sliding folding panel

HSW Horizontal Sliding Walls, fully framed



HSW-R
Fully framed for toughened safety glass,
laminated safety glass or double glazing

HSW-ISO
Fully framed with thermal-break frame
profiles

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Subject to change without notice.

Stacking systems

Perfect parking every time

Existing structures or unusual layouts often require special solutions, particularly in the design of the stacking area. DORMA HSW systems can be parked in a range of different positions. The stack of panels can be aligned parallel or square to the frontage, be readily visible for effect or hidden behind columns etc.

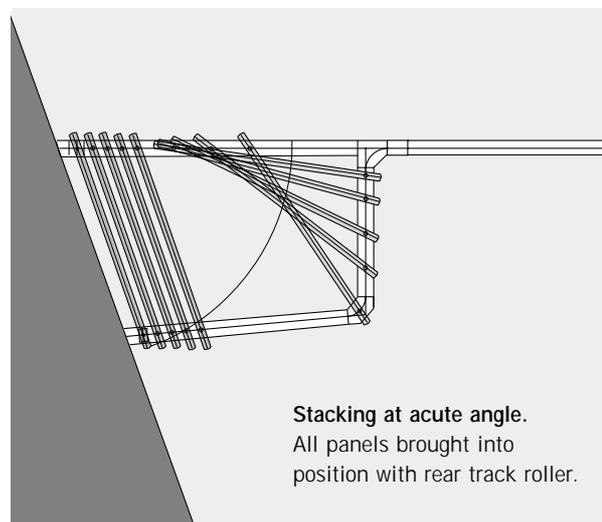
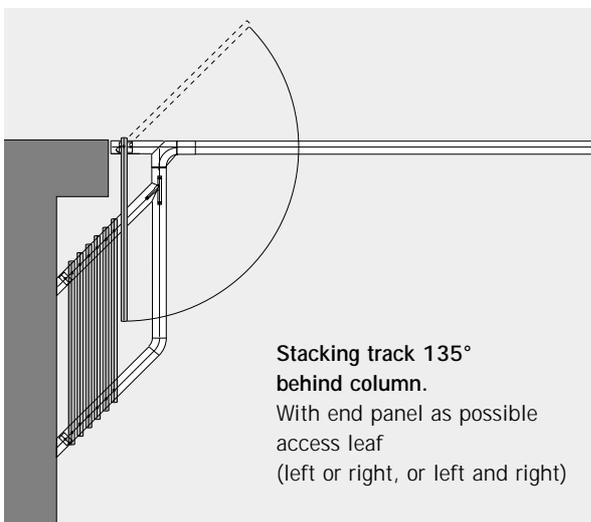
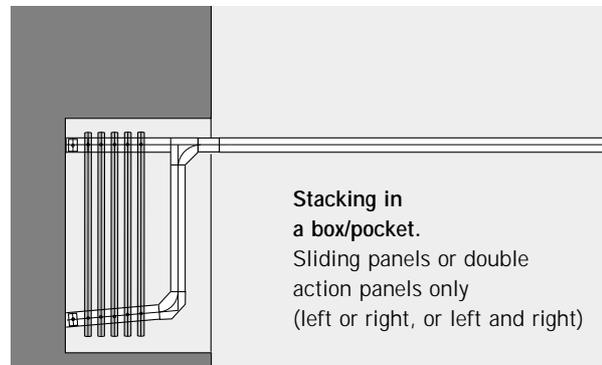
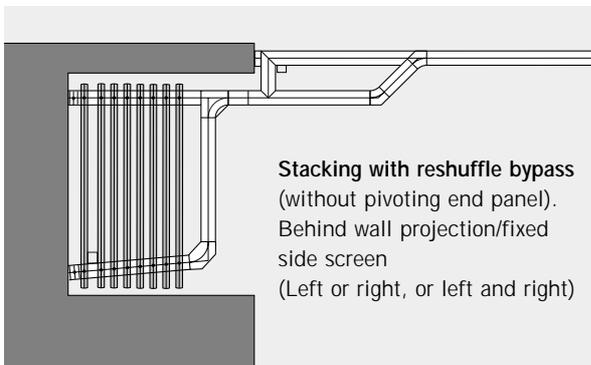
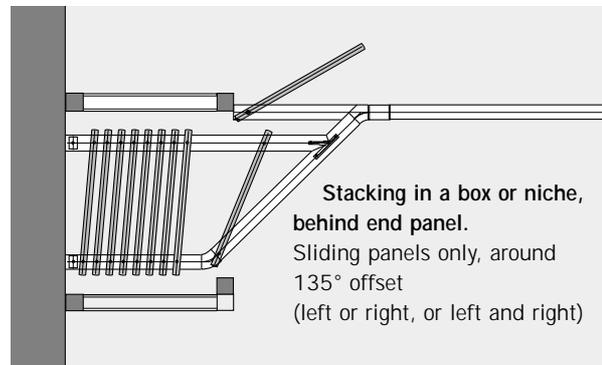
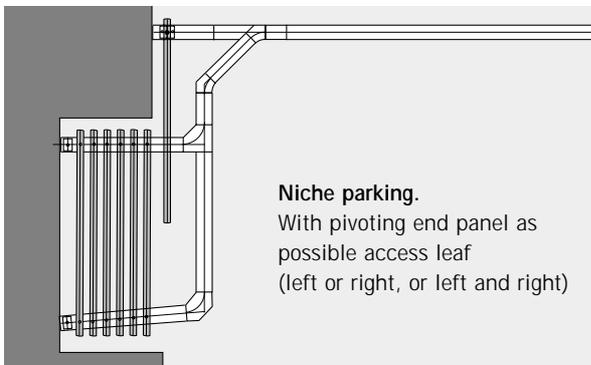
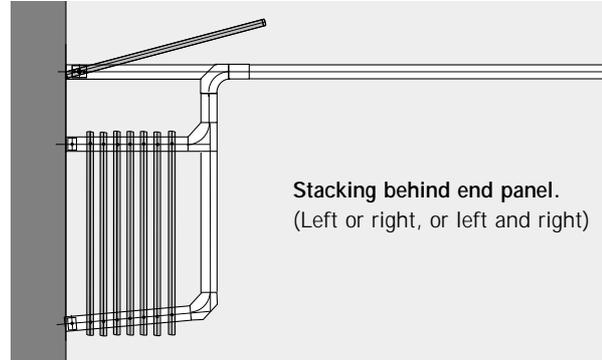
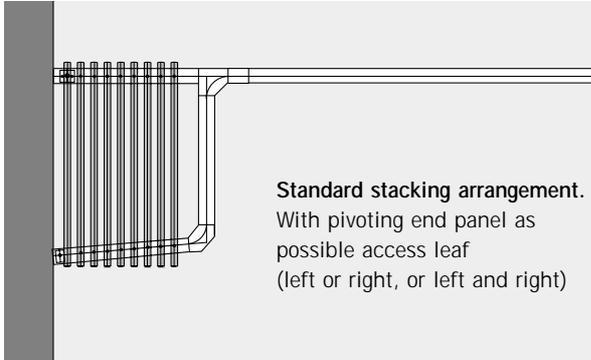
Another possibility is that of parking the system in line but out of the way, whether behind a wall or in a niche (see also pages 5 - 13).

The panels can also perform certain functions when the frontage is open, such as providing the sides of internal store windows and showcases, or, if provided with the appropriate printing on the glass, for adding artistic value to a wall.

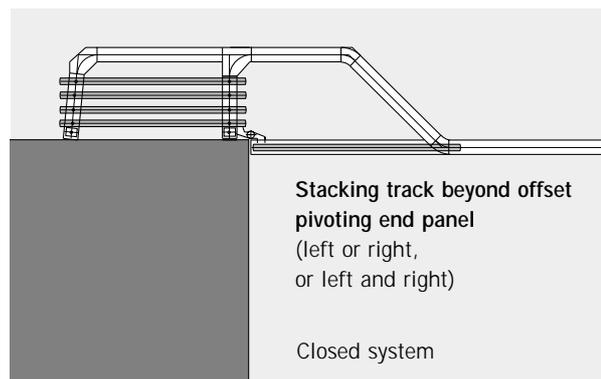
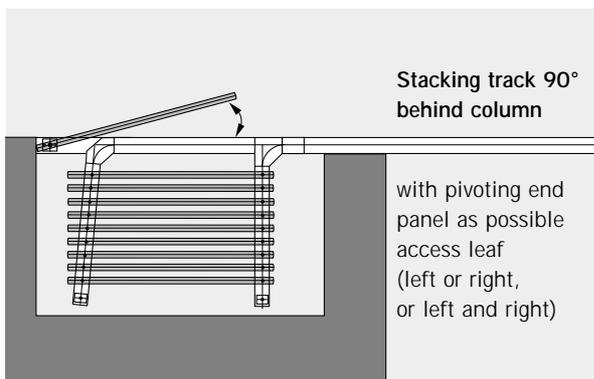
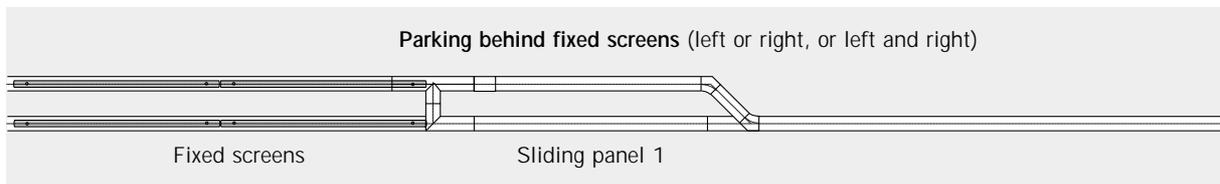
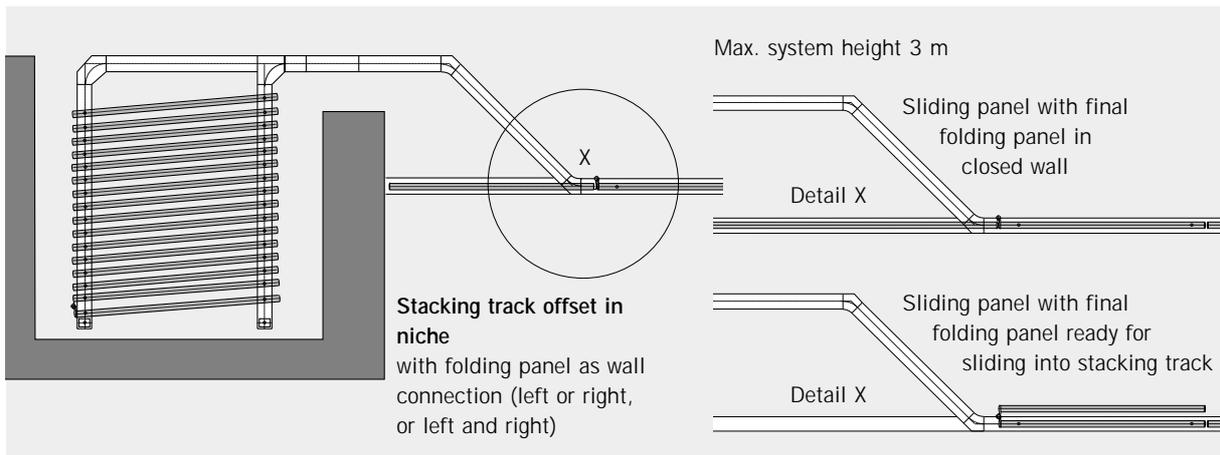
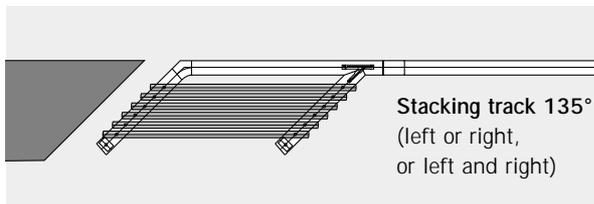
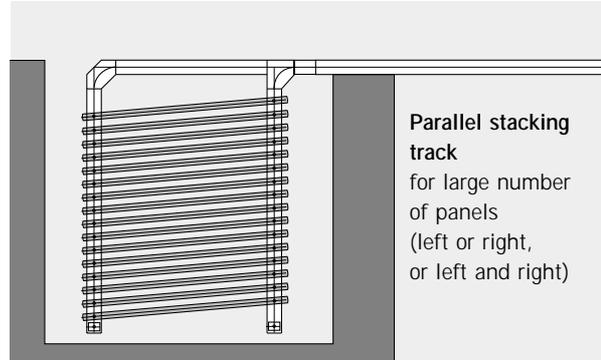
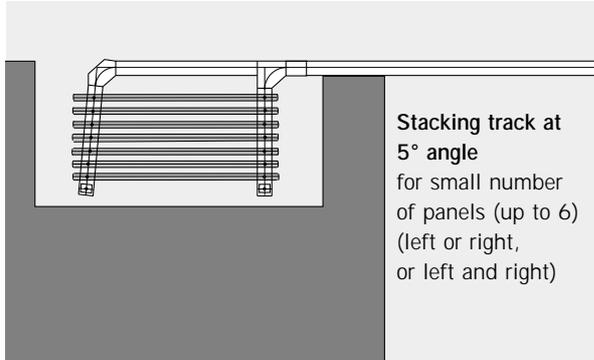
The following pages show some system solutions devised in answer to a wide range of different problems.



Panels stacked 90° transverse to travel direction



Panels parallel to travel direction



Panel types

In the case of the fully glazed HSW-G system, the panels create a continuous, transparent surface without any lateral framing. The HSW-ARCOS variant adds its harmonious arc shape to the framing for the glass. For a more sophisticated or intricate appearance, single-point fixings (HSW-GP) are also available.



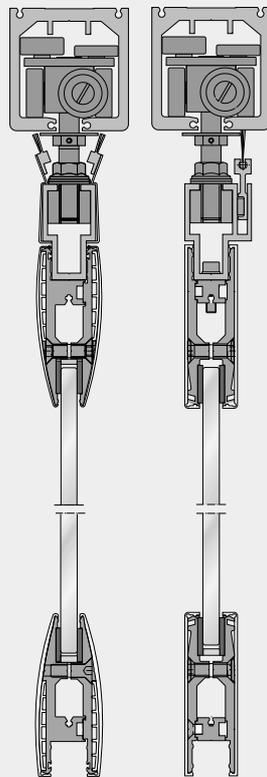
Example of an HSW-G system
Fully glazed with door rails

This folding system with top and bottom glazing rails coordinates perfectly with the HSW-G variant. The FSW-G operates without a separate stacking area, and instead folds together within the main frontage or partition zone.



Example of an FSW-G system
Hinge-linked door rails

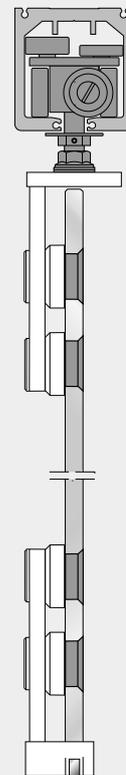
HSW-ARCOS
HSW-G / FSW-G,C,C plus
Fully glazed with door rails



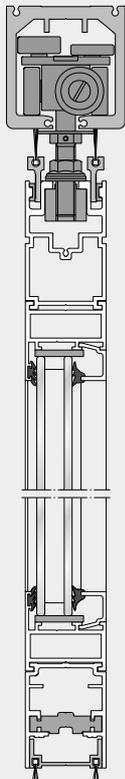
HSW-ARCOS

HSW-G
FSW-G
FSW-C/C plus

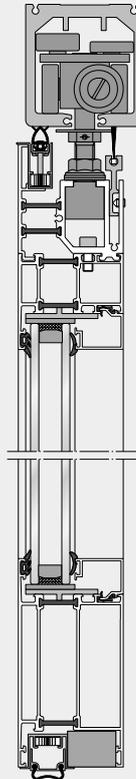
HSW-GP
Fully glazed
with single-point fixings



HSW-R
Fully
framed



HSW-ISO
Fully framed
with double glazing

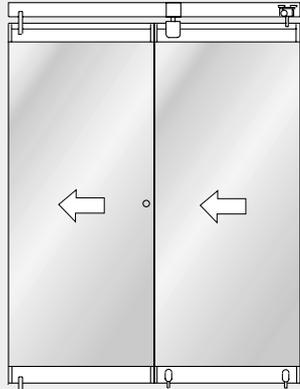


The all-round framing provided on the individual panels of an HSW-R system not only offers high stability but also an excellent barrier to keep out external influences. The panels can be constructed with laminated or toughened safety glass as required.

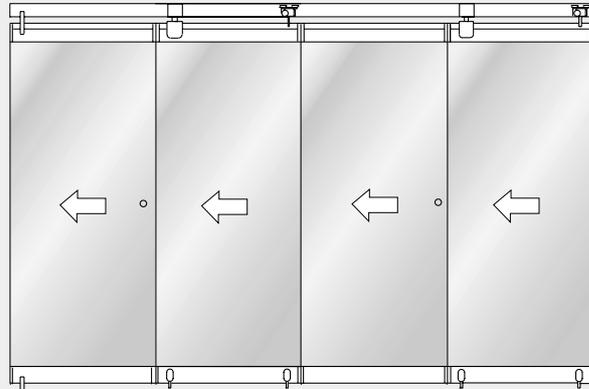


Example of an HSW-R system
Fully framed
or HSW-ISO
Fully framed with thermal-
break frame profiles

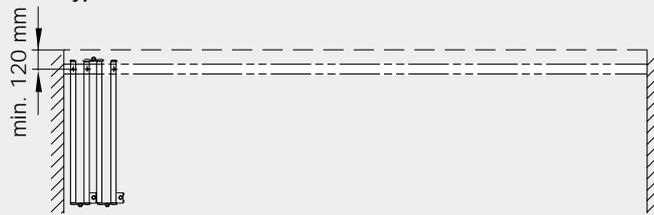
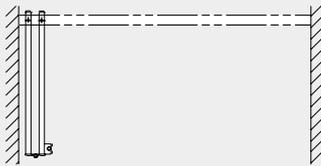
FSW-G assembly types



Type 1



Type 2



Type 1a 2 folding panels left (as drawn)

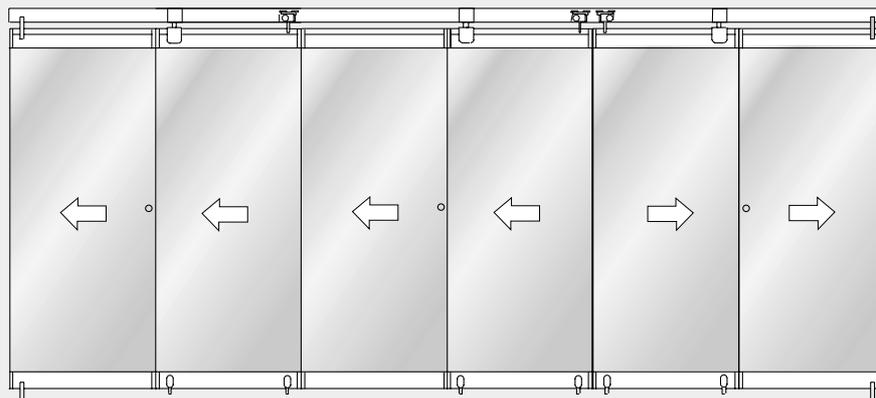
Type 1b 2 folding panels right
(mirror arrangement)

Type 1c 4 folding panels (2 panels left
and 2 panels right)

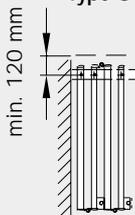
Type 2a 4 folding panels left (as drawn)

Type 2b 4 folding panels right
(mirror arrangement)

Type 2c 8 folding panels
(4 panels left and 4 panels right)

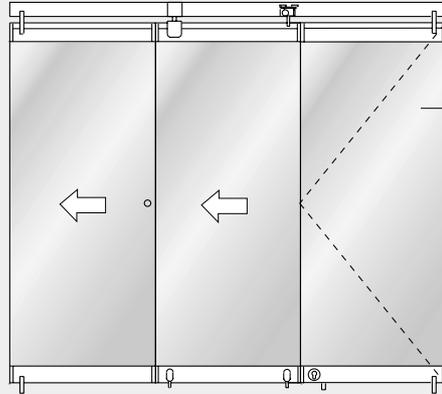


Type 3



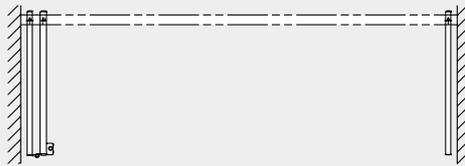
Type 3a 6 folding panels as drawn
(4 panels left and 2 panels right)

Type 3b 6 folding panels, mirror arrangement
(2 panels left and 4 panels right)



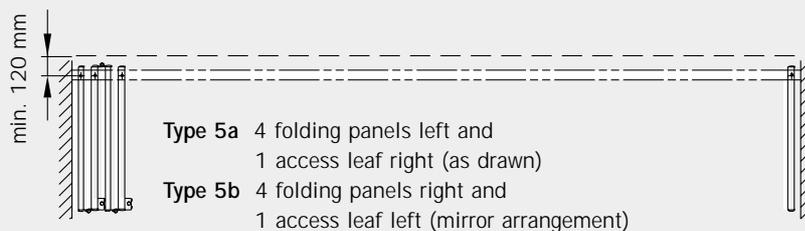
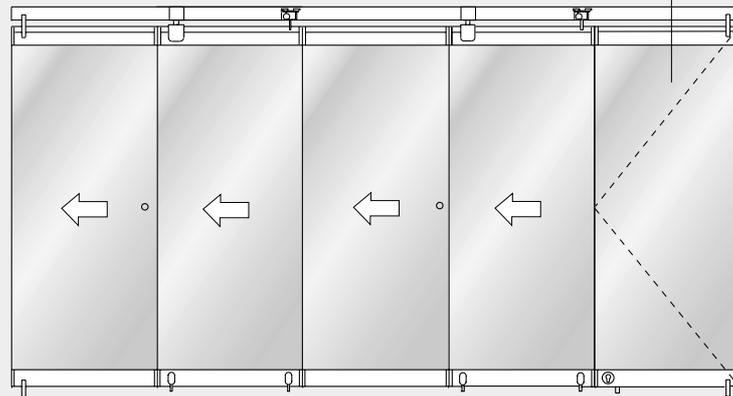
Type 4

HSW end panel
(Access leaf)



Type 4a 2 folding panels left and
1 access leaf right (as drawn)

Type 4b 2 folding panels right and
1 access leaf left (mirror arrangement)



Type 5a 4 folding panels left and
1 access leaf right (as drawn)

Type 5b 4 folding panels right and
1 access leaf left (mirror arrangement)

FSW-C panels and functions

Folding sliding walls, fully glazed, with door rails top and bottom, track roller position in the panel centre.

Large spans can be implemented with the FSW-C. The number of panels per system can be freely selected between 3 and 8. Thanks to the central suspension point, pairing is not necessary. Double systems with two counter-running assemblies can also be installed. The panels are guided on a sturdy track rail fixed to the ceiling. An additional floor guide is not necessary, so the floor covering can be laid without interruption. Folding sliding walls require a half-width base panel fitted with pivot bearings, to which the folding panels are connected. In order to maintain system symmetry, the final folding panel without a track roller is also of half-width design.



The hinges exhibit a slight pivot offset. This ensures that the folded assembly is particularly compact while at the same time providing for good stability.

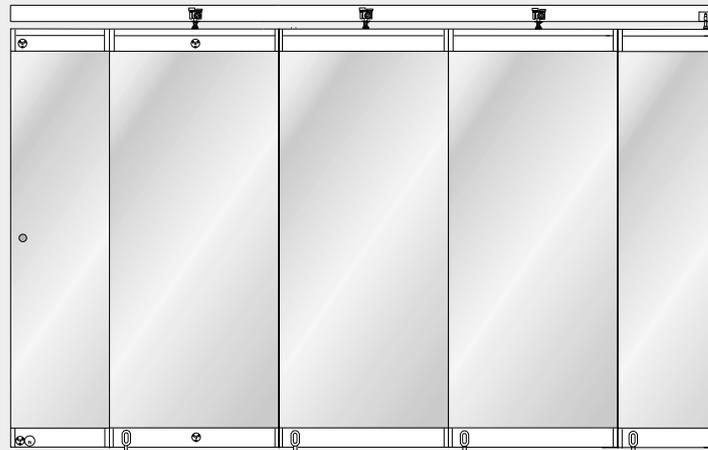
Max. panel sizes and weights

Max. system height 3000 mm

Max. panel width 1000 mm
Width of the base panel
= half panel width + 63 mm

Max. panel weight 70 kg

Number of panels 3 to 8



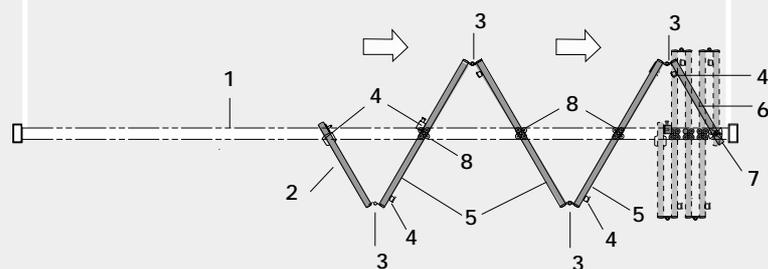
Final folding panel with locking devices top and bottom.

Folding panel with carrier, locking devices top and bottom.

Folding panel with carrier and locking device bottom.

Folding panel with carrier and locking device bottom.

Base panel with floor pivot and locking device bottom.



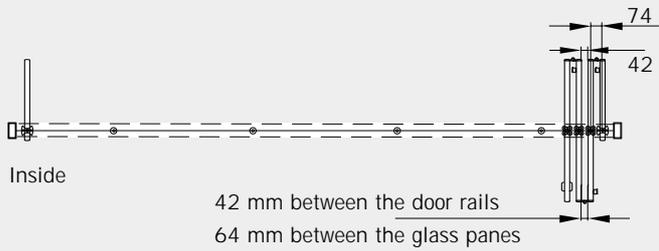
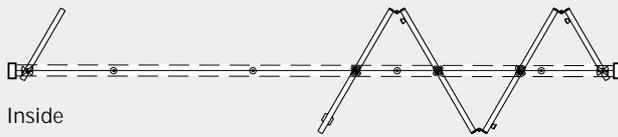
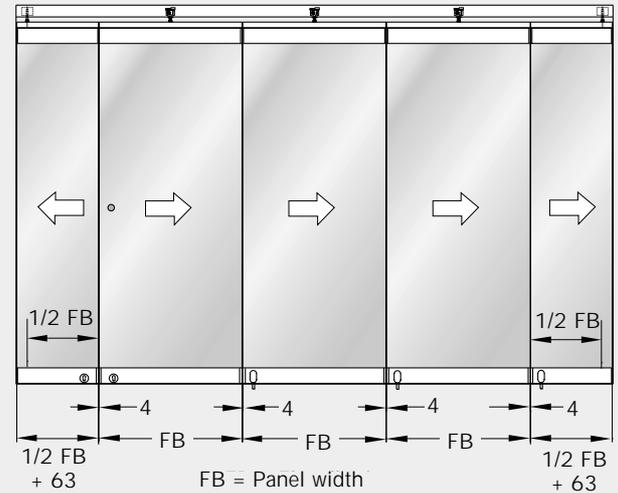
- | | |
|-----------------------|-----------------|
| 1 Track rail | 5 Folding panel |
| 2 Final folding panel | 6 Base panel |
| 3 Folding hinge | 7 Floor pivot |
| 4 Locking device | 8 Roller |

For assembly options, see pages 52/53

FSW-C assembly types

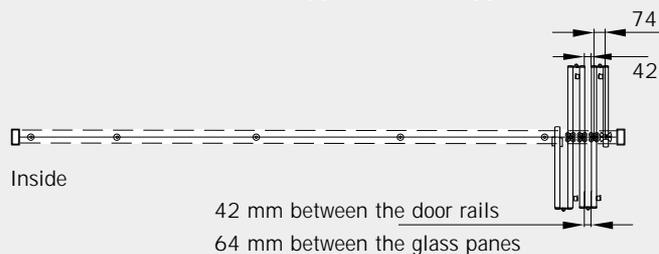
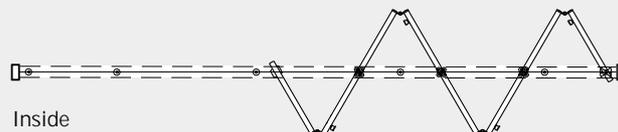
Type C1

- 1 single action end panel (narrow)
- 3 folding panels
- 1 base panel (narrow)



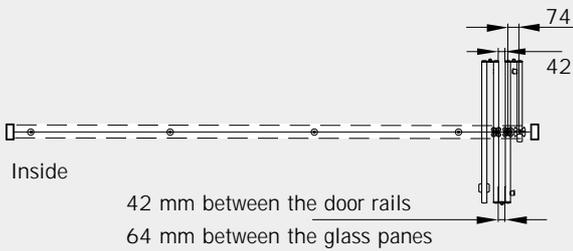
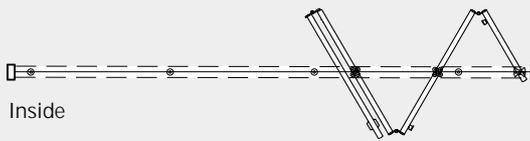
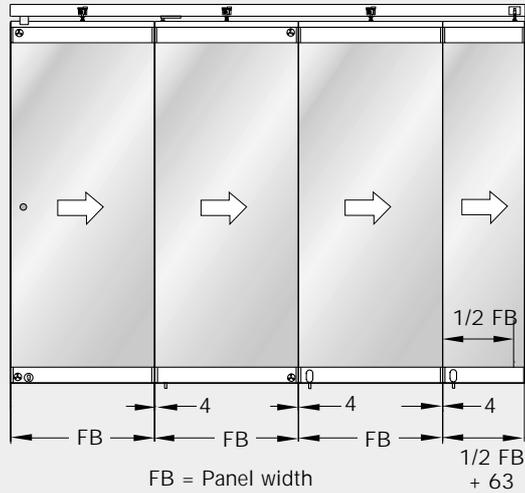
Type C2

- 1 final folding panel (narrow)
- 3 folding panels
- 1 base panel (narrow)



Type C3

- 1 access leaf
(final folding panel)
- 2 folding panels
- 1 base panel (narrow)



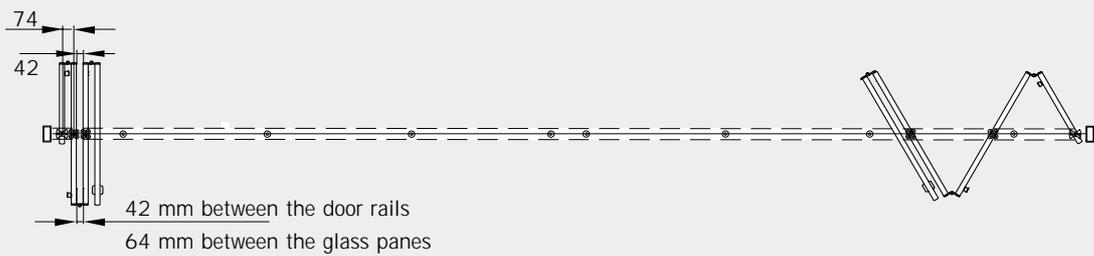
Type C3 double (counter-running) system

Left:

- 1 base panel (narrow)
- 2 folding panels
- 1 access leaf (final folding panel)

Right:

- 1 access leaf (final folding panel)
- 2 folding panels
- 1 base panel (narrow)



FSW-C plus

Access with convenience – the plus with the FSW-C.

The FSW-C model offers the possibility of using the final folding panel as an access door when the frontage is closed – with all the convenience offered by the DORMA TS 93 G door closer. In this case, the special bottom locking device and the top clamp-mounted stop stabilise the first folding panel, while the top angle stop ensures that the closed final folding panel is in the correct position.

The folding hinges connecting the access leaf to the folding panel have a large pivot point offset in order to create room for the door closer and pull handles. All the other folding panels are equipped with a standard folding hinge and roller.

Max. panel sizes and weights

Max. system height 3000 mm

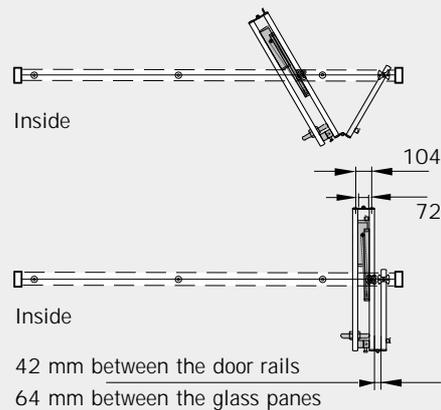
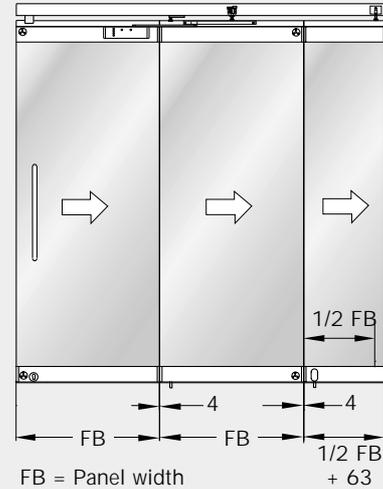
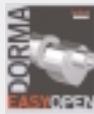
Max. panel width 1000 mm
Width of the base panel
= half panel width + 63 mm

Max. panel weight 70 kg

Number of panels 3 to 8

Type Cp1

- 1 access leaf (final folding panel with TS 93 G door closer)
- 1 folding panel
- 1 base panel (narrow)



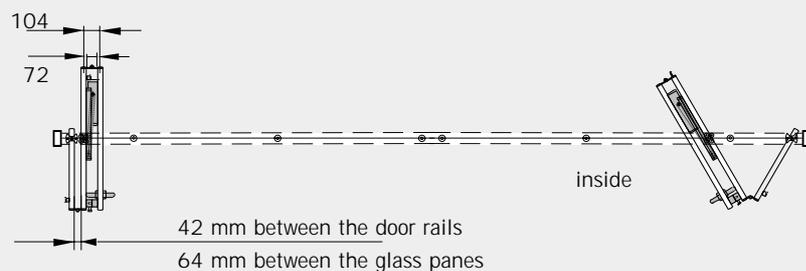
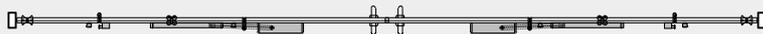
Type Cp1 double (counter-running) system

Left:

- 1 base panel (narrow)
- 1 folding panel
- 1 access leaf (final folding panel with TS 93 G door closer)

Right:

- 1 access leaf (final folding panel with TS 93 G door closer)
- 1 folding panel
- 1 base panel (narrow)



HSW-R panel types and functions

Horizontal sliding walls, fully framed, for toughened safety glass, laminated safety glass or double glazing



Robust profile frames with top, bottom and side seals for elevated resistance to mechanical loading and protection against weathering, heat loss and draughts. Available with toughened safety glass, laminated safety glass, double glazing or special glazing; standard fixing profile for 8 and 22 mm, other glazing thicknesses on application.

Max. panel sizes and weights

Max. system height	3000 mm	3000 mm	3000 mm	3000 mm
Max. panel width	1100 mm	1100 mm	1100 mm	1100 mm
Max. panel weight	100 kg	100 kg	100 kg	100 kg

	Single/double action end panel	Sliding panel	Single action sliding panel	Double action sliding panel
	Non-sliding. Single action panel with floor pivot and TS 73 door closer. Double action panel with floor pivot or BTS floor spring.	Fixed when frontage closed.	With integrated concealed door closer type ITS 96, Size 3-6; operational when frontage closed. Minimal panel width 870 mm.	With integrated concealed door closer type ITS 96, Size 3-6; operational when frontage closed. Minimal panel width 870 mm.

The individual panels can also be of differing widths.
The largest width should not exceed max. 115% of the smallest width.

HSW-ISO panel types and functions

Double glazing with thermal-break frame profiles.



Panel types

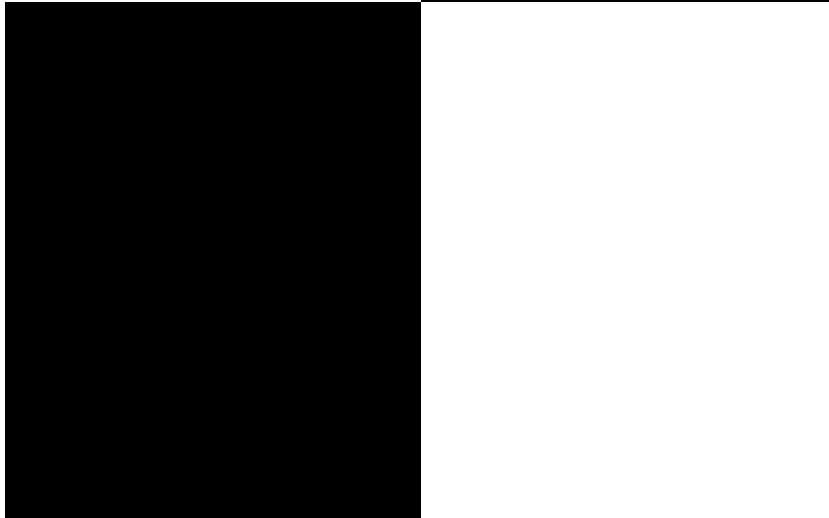
These double-glazed panels with their frames of thermal-break profiles (frame material group 2.1) offer outstanding protection against the influences of the weather, effective thermal insulation and comfortable temperatures - even close to the frontage surface - during seasonal changes and in the winter months. And all these effects are ideally enhanced by laterally arranged, interlocking multiple-lip seals plus automatically extending top and bottom rubber seals that are pressed against the track rail and floor when the frontage is closed.

Max. panel sizes and weights

Max. system height	3000 mm	3000 mm	3000 mm	3000 mm
Max. panel width	1100 mm	1100 mm	1100 mm	1100 mm
Max. panel weight	120 kg	120 kg	120 kg	120 kg

<p>Single action door Single action panel, non-sliding, equipped with TS 92/93 door closer</p>	<p>Sliding panel Fixed when frontage closed.</p>	<p>Single action sliding panel Single action sliding panel with TS 92/93 cam-action door closer, operational when frontage closed.</p>	<p>Fixed screen Non-sliding side screen with top retaining brackets and bottom rail.</p>
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The individual panels can also be of differing widths.
The largest width should not exceed max. 115% of the smallest width.



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